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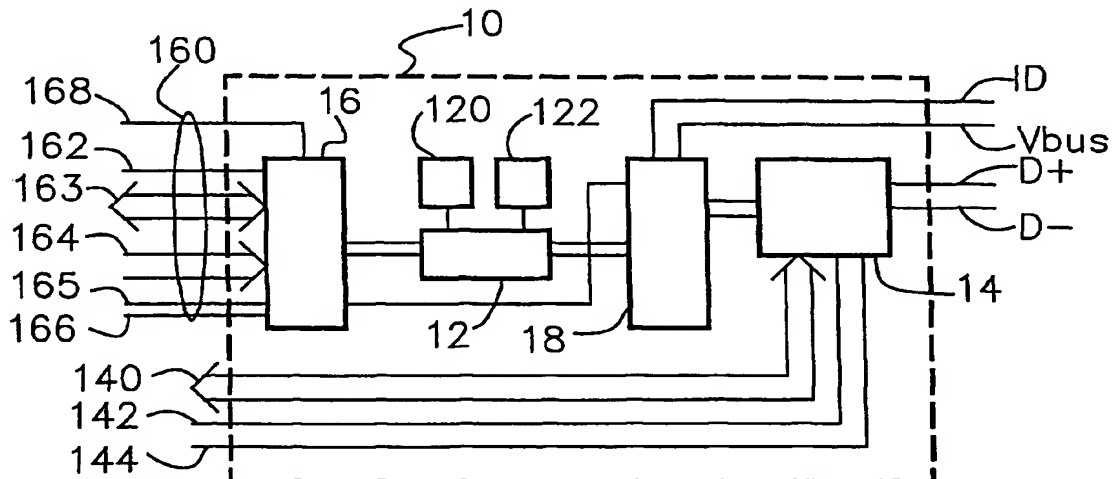
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[Continued on next page]

(54) Title: **INTERFACE INTEGRATED CIRCUIT DEVICE FOR A USB CONNECTION**



(57) Abstract: An electronic apparatus with a USB connection has a functional circuit with a processor, a parallel address data bus coupled to the processor and a USB device controller circuit with a USB interface in parallel with said address/data bus. The apparatus contains an interface integrated circuit electronically between the USB connection on one hand and the parallel address/data interface and the USB interface on the other hand. The interface integrated circuit has external terminals for connecting to a USB bus, a transceiver capable of transceiving for both a USB host and a USB device, the transceiver having a USB interface, a host interface and a device interface. The USB interface is coupled to the USB connection. The device interface is connected to the external USB device controller circuit. A host controller is coupled to the host interface, the host controller being coupled to the functional circuits via the parallel data/address bus.



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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/116565 A1 (WANG JING ET AL) 22 August 2002 (2002-08-22) column 1, paragraph 5 - paragraph 9 column 2, paragraph 32 - column 3, paragraph 35 column 5, paragraph 58 - paragraph 59; figure 5	1-6
A	US 6 338 109 B1 (JACCARD FREDERICK D ET AL) 8 January 2002 (2002-01-08) column 2, line 16 - line 44 column 4, line 45 - column 5, line 22; figure 1	1-6
A	US 6 218 969 B1 (CASTLEBERRY JAMES E ET AL) 17 April 2001 (2001-04-17) column 4, line 45 - column 5, line 18 figure 1	1-6

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002116565	A1	22-08-2002	NONE	
US 6338109	B1	08-01-2002	NONE	
US 6218969	B1	17-04-2001	US 6040792 A	21-03-2000